

ABSTRACT OF THE DISCLOSURE

A process for polymerizing olefins is disclosed. The process uses an organometallic complex with at least one non-bridged indenoindolyl ligand bonded to M. The substituent on the indole nitrogen contains an 5 atom selected from the group consisting of S, O, P, and N. Polyolefins from the process have unexpectedly high molecular weight compared with polyolefins made using similar supported indenoindolyl complexes.